determining a number of turning points in identified patterns;

determining an expected number of turning points by a predetermined relation; comparing a difference between the number of turning points and the expected number of turning points to a fourth predetermined threshold; and

determining, if the difference is greater than the fourth predetermined threshold, that the PAC or PVC pattern is a trigeminy pattern.

**20**. The non-transitory computer usable medium of claim **16** wherein the computer readable code, when executed in the one or more processors, further causes the one or more processors to:

obtain, before demarcating boundaries in the Poincare plot space, a second root mean square of successive differences, a second Shannon entropy and a second turning point ratio for the time interval data from a subject under test;

compare the second root mean square of successive differences to a fourth predetermined threshold;

compare the second Shannon entropy to a fifth predetermined threshold;

compare the second turning point ratio to a six predetermined threshold;

determine, if each of the second root mean square of successive differences, the second Shannon entropy, and the second turning point ratio is less than a corresponding predetermined threshold, that the subject under test exhibits NSR without PAC or PVC; and

end, when the subject under test exhibits NSR without PAC or PVC, execution of the computer readable code.

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